Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Yelahanka Project Division

Name of Work: Providing Grills and Constructions of Pathway at Vinayaka Park at A Sector in Ward No.04

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
						Estimate Cost Rs.			150.00 Lakhs
1	**Removing and refixing stone slabs** of drains and pointing in CM (1:3) (P.No-27,I No-5.33)								
	Surround Park drain slab	1	220.00	0.90		198.00			
	missing/damaged 35%					69.30			
						128.70	**Sqm**	**111.30**	**14324.31**
	Basic Rate Rs.=	105.00							
	Add 6% A.W Rs. =	6.30							
	Total Rate Rs. =	**111.30**							
2	KSRB 2-2 : **Earthwork excavation by manual means** for foundation of buildings, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications. (Page No 6, I.No.2.3)								
	For SSM foundation	1	109.00	0.80	0.60	52.32			
		1	30.00	0.80	0.60	14.40			
		1	110.00	0.80	0.60	52.80			
	Fencing	1	370.00	0.75	0.50	138.75			
	Debris	1	30.00	20.00	0.35	210.00			
	For Benches	25	1.80	1.50	0.25	16.88			
	For Basket Ball court	1	30.00	18.00	0.25	135.00			
	Surround Park drain	1	220.00	0.50	0.40	44.00			
						664.15	**Cum**	**394.42**	**261952.07**
	Basic Rate Rs.=	299.00							
	Add 6% A.W Rs. =	17.94							
	Sub Total =	316.94							
	8Km Lead, Loading and Unloading =(2*1.28*8)+57	77.48							
	Total Rate Rs. =	394.42							
3	Providing and fixing **RCC precast cover slab of 100mm thick** for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	From item no. 01					69.30			
						69.30	**Sqm**	**2337.00**	**161954.10**
	Data Rate	2337.00							
4	Providing and Fixing **pre cast covering Slab 250mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)								
	For Entrance	1	5.00	1.50		7.50			
						7.50	**Sqm**	**5418.00**	**40635.00**
	Data Rate	5418.00							

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
5	KSRB 2.8 : **Providing and Filling in foundation with granite** / trap broken metal 100mm. and down size & with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift, complete as per specifications. specification. No. KBS 2.10.2. (P.No-7,I No-2.15)								
	For Basket Ball court	1	30.00	18.00	0.20	108.00			
						108.00	**Cum**	**2574.74**	**278071.92**
	Basic Rate Rs.=	2429.00							
	Add 6% A.W Rs. =	145.74							
	Total Rate Rs. =	**2574.74**							
6	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	For SSM foundation	1	109.00	0.80	0.15	13.08			
		1	30.00	0.80	0.15	3.60			
		1	110.00	0.80	0.15	13.20			
	Fencing	1	370.00	0.75	0.15	41.63			
	For Basket Ball court	1	30.00	18.00	0.15	81.00			
	For Benches	25	1.80	1.50	0.15	10.13			
						162.63	**Cum**	**5421.90**	**881763.60**
	Basic Rate Rs.=	5115.00							
	Add 6% A.W Rs. =	306.90							
	Total Rate Rs. =	**5421.90**							
7	KSRB 5.2-3 : Providing and **constructing granite / trap / basalt size stone masonry** in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (Page No 25., I.No.5.6).								
	For SSM foundation	1	109.00	0.75	0.60	49.05			
		1	30.00	0.75	0.60	13.50			
		1	110.00	0.75	0.60	49.50			
	Fencing	1	370.00	0.60	0.40	88.80			
	For SSM foundation	1	104.00	0.60	0.60	37.44			
		1	27.00	0.60	0.60	9.72			
		1	107.00	0.60	0.60	38.52			
	Fencing	1	370.00	0.45	0.40	66.60			
						353.13	**Cum**	**4871.76**	**1720364.61**
	Basic Rate Rs.=	4596.00							
	Add 6% A.W Rs. =	275.76							
	Total Rate Rs. =	**4871.76**							
8	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of Mix 1:2:4** with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No-13,I No-4.6)								
	For SSM foundation	1	104.00	0.60	0.10	6.24			
		1	27.00	0.60	0.10	1.62			
		1	107.00	0.60	0.10	6.42			
	Fencing	1	370.00	0.45	0.10	16.65			
						30.93	**Cum**	**5747.32**	**177764.61**
	Basic Rate Rs.=	5422.00							

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Add 6% A.W Rs. =	325.32							
	Total Rate Rs. =	**5747.32**							
9	**Fabricating, providing and erecting in position of MS Hot Dip Galvanised** Sq. Hallow Poles of 132 X 132 Heavy gauge of length 3000mm with MS. Hot dip Galvanised grill work as per approved design and drawing of chief architect. Using 12 X 75mm galvanised flat for alround frame and 20 X 20mm galvanised forged design with square for vertical at 150mm c/c as shown in the drawing including providing forged ornamental arrowhead at top and bottom. The work is inclusive of throughing flat, square rods, placing welding all the joints, including grinding, finishing 2 coats of anticorrosive paint over one coat of metal primer. The rate is inclusive of all materials like MS. Hollow galvanized pipe, flats, forged square rods, cost of labour for all items of work cost painting, welding, cutting, grinding with all lead and lift as per specification including loading and unloading with cost and conveyance of all materials, labour, machinery andincidental charges for the successful completion of the work as per the direction of the Engineer-in-charge of the work. (Data Rate)								
	For Grill	1	104.00		2.40	249.60			
		1	27.00		2.40	64.80			
		1	107.00		2.40	256.80			
						571.20	**Sqm**	**9144.00**	**5223052.80**
	Data Rate	9144.00							
10	**Fabricating, providing and erecting in position Hot dip galvanised Gate.** Using 72 X 72 X 4.8mm Sq. GI Pipe Frame with Top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile, 20mm hot dip galvanised sq. rod for verticals at 150mm c/c, as shown in the drawing including providing hot dip galvanised forged ornamental design in between sq. rods and heads at top, middle and bottom. Intermediate supports of 75X12 mm and 50X6 mm arch bend to hot dip galvanised flats. The work is inclusive of throughing GI flat GI sq. rods, placing, welding all the joints including grinding, finishing metal putty, painting two coats enamel painting. The rate is inclusive of all materials like GI sq. pipe, GI sq. rods, GI forged designs etc., heavy duty hinges are made out of 75mm solid sq. block assembled with 20mm dia bearing in three places for each flop. Heavy Duty Locking arrangements at tow places including cost of labour, painting, erecting charges using hoist pulley cranes with all lead and lift, loading, transportation, unloading, scaffolding charges and all other incidental charges for successful completion of the work as per directions of the Engineer-in-charge of the work. (Data Rate)								
	For Gate	1	5.00		3.00	15.00			
		1	3.00		3.00	9.00			
		1	3.00		3.00	9.00			
						33.00	**Sqm**	**12475.00**	**411675.00**
	Data Rate	12475.00							
11	KSRB 4.2.7 : Providing and laying in position **reinforced cement concrete of design mix M25** with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, Unties and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, .pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1,4.6 (Page 14, Item No 4.12)								
	For Basket Ball court	1	30.00	18.00	0.20	108.00			
						108.00	**Cum**	**6407.70**	**692031.60**
	Basic Rate Rs.=	6045.00							

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Add 6% A.W Rs. =	382.70							
	Total Rate Rs. =	**6407.70**							
12	KSRRB M2200-6. **Providing T.M.T. steel reinforcement for R.C.C.** work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign as per specification. MORTH Specification No.1600 & 2200(I No-28.8.2,P No-229)								
	For Basket Ball court	1	30.00	18.00		540.00			
	6kg/Sqm					3240.00			
						3.24	**Tn**	**72326.98**	**234339.42**
	Basic Rate Rs.=	68233.00							
	Add 6% A.W Rs. =	4093.98							
	Total Rate Rs. =	**72326.98**							
13	**Vaccum De- writing** with vaccum pump and suction mat and compaction with skin flater clubbed with floatiog disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc. with all lead and lift. (Page No 176 Item No 22.7)								
	For Basket Ball court	1	30.00	18.00		540.00			
						540.00	**Sqm**	**72.08**	**38923.20**
	Basic Rate Rs.=	68.00							
	Add 6% A.W Rs. =	4.08							
	Total Rate Rs. =	**72.08**							
14	**Providing groove cutting** for width of 5mm to 10mm and depth 80mm- 100mm including cost of cutting machine, generator & HOM, including cost of blade,coolant etc., including cleaning of groove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications. (Page No 176 Item No 22.8.1)								
	For Basket Ball court	8	30.00			240.00			
		9	18.00			162.00			
						402.00	**Rmt**	**143.10**	**57526.20**
	Basic Rate Rs.=	135.00							
	Add 6% A.W Rs. =	8.10							
	Total Rate Rs. =	**143.10**							
15	KSRRB M1200-46. **Sand filling in wells** complete as per drawing and technical specifications including cost of all materials, labour, HOM, form works, scaffolding & centering complete as per specifications. MORTH Specification No.1207 (P.No.217, I.No.26.124)								
	For Children Play Area	1	14.00	8.00	0.30	33.60			
						33.60	**Cum**	**2806.88**	**94311.17**
	Basic Rate Rs.=	2648.00							
	Add 6% A.W Rs. =	158.88							
	Total Rate Rs. =	**2806.88**							
16	KSRRB M300-53. **Construction of embankment** with approved material Gravel /Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications, including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density. MORTH Specification No. 305. (Page 147, Item No 19.60)								
	For Play Area	1	66.00	21.00	0.20	277.20			
	Deduct Basket Ball Area	-1	30.00	18.00	0.20	-108.00			
	Deduct Children Play Area	-1	14.00	8.00	0.20	-22.40			
						146.80	**Cum**	**344.50**	**50572.60**

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Basic Rate Rs.=	325.00							
	Add 6% A.W Rs. =	19.50							
	Total Rate Rs. =	**344.50**							
17	Providing and fixing **pre cast solid cement concrete kerb stones** made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation etc.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30)								
	For Basket Ball court	2	30.00			60.00			
		2	18.00			36.00			
	Children Play Area	1	14.00			14.00			
		1	8.00			8.00			
	For bench surround	25	4.50			112.50			
	missing/damaged lengths	1	190.00			190.00			
						420.50			
						934.00	**Nos**	**432.48**	**403936.32**
	Basic Rate Rs.=	408.00							
	Add 6% A.W Rs. =	24.48							
	Total Rate Rs. =	**432.48**							
18	**Painting two coats after filling the surface** with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification No. K5RRB M800-6. (P.No.180, I.No.24.1 of PW, P&IWTD SR 2018-19)								
	For Basket Ball court	2	30.00		0.35	21.00			
		2	18.00		0.35	12.60			
	Top Court	1	30.00	18.00		540.00			
	Children Play Area	1	14.00		0.35	4.90			
		1	8.00		0.35	2.80			
	For bench surround	25	4.50		0.35	39.38			
	Pathway	2	240.00		0.35	168.00			
						788.68	**Sqm**	**84.80**	**66879.64**
	Basic Rate Rs.=	80.00							
	Add 6% A.W Rs. =	4.80							
	Total Rate Rs. =	**84.80**							
19	K5RB 14.6 : Providing and laying **heavy duty cobble stones interlock pavers,** using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM complete as per specifications. Specification No. KBS (P.No-103,I No-14.6), 60mm thick								
	Damaged Pathway	1	80.00	1.80		144.00			
						144.00	**Sqm**	**1116.18**	**160729.92**
	Basic Rate Rs.=	1053.00							
	Add 6% A.W Rs. =	63.18							
	Total Rate Rs. =	**1116.18**							
20	Providing and fixing **Vitrified glazed tiles** of approved make, quality & colour of size 600 x 600 x 10mm thick fixed on bed of 12mm thick cement mortar for flooring, skirting and jointed with neat cement slurry mixed with pigment to mach shade of tiles, including providing spacers at required interval and removing stains, including cost of all mateirals, mortar, labour, etc., Complete as per specification. (P.No-103,I No-14.45)								
	Damaged Tiles	1	10.00	8.00		80.00			

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Basic Rate Rs.=	976.00				80.00	Sqm	1034.56	82764.80
	Add 6% A.W Rs. =	58.56							
	Total Rate Rs. =	**1034.56**							
21	Providing and laying/fixing cement base, precast, pre polished cement concrete, **designer tiles 25mm thick** for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, mortar, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification. (P.No-112,I No-14.62)								
	For Benches	25	1.80	1.50		67.50			
						67.50	**Sqm**	**1305.92**	**88149.60**
	Basic Rate Rs.=	1232.00							
	Add 6% A.W Rs. =	73.92							
	Total Rate Rs. =	**1305.92**							
22	**Basket ball poles with board** inclusive of all taxes and transportation charges as per the direction of Engineer in Charge (Data approved rate)								
		1				1.00			
						1.00	**Each**	**40000.00**	**40000.00**
	Data Rate	40000.00							
23	**Executive Bench- Made out of Sadarahalli grey stone** with hand supports with 3 line finishing with arch design with 100mm slabs. Height 90x Length 1500 width 45 cms (Data approved rate)								
		25				25.00			
						25.00	**Each**	**18200.00**	**455000.00**
	Data Rate	18200.00							
24	**Supplying of dustbin** for collection of dry and wet waste for segregation, (Fiber dustbin Modern Type 3.0-3.75 Ft) inclusive of all taxes and transportation charges as per the direction of Engineer in Charge (Data approved rate)								
		6				6.00			
						6.00	**Each**	**18000.00**	**108000.00**
	Data Rate	18000.00							
25	**Supplying and fixing M.S. Rectangular poles** made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1 :2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 ems. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer-in - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) (P.No-266,I No-37.2)								
	Fencing	185	2.50			462.50			
						462.50	**m**	**910.54**	**421124.75**
	Basic Rate Rs.=	859.00							
	Add 6% A.W Rs. =	51.54							
	Total Rate Rs. =	**910.54**							
26	**Providing chain link fencing 50mm size** of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint (P.No-266,I No-37.3)								
	Fencing	1	370.00		1.80	666.00			
						666.00	**Sqm**	**757.90**	**504761.40**
	Basic Rate Rs.=	715.00							

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Add 6% A.W Rs. =	42.90							
	Total Rate Rs. =	**757.90**							
27	**Providing and fixing M.S. Block pipe of 38mm dia**, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint(P.No-266,I No-37.4)								
	Fencing	3	370.00			1110.00			
						1110.00	**m**	**432.48**	**480052.80**
	Basic Rate Rs.=	408.00							
	Add 6% A.W Rs. =	24.48							
	Total Rate Rs. =	**432.48**							
28	**Providing and fixing M.S. Gate** as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members as shown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specification. (P.No-45,I No-7.37)								
	Gate	2	3.00		2.40	14.40			
						14.40	**Sqm**	**3192.72**	**45975.17**
	Basic Rate Rs.=	3012.00							
	Add 6% A.W Rs. =	180.72							
	Total Rate Rs. =	**3192.72**							
								Total Construction Cost	**13196636.60**
								12% GST Charges	**1511236.39**
								DPR & PMC Charges	**292000.00**
								Sub Total	**14999872.99**
								Utility Shifting, Miscellaneous, Rounding off	**127.01**
								GRAND TOTAL	**15000000.00**

Administrative Approval
Accorded For Rs.150.00 Lakhs
Head of A/C 2215
CER NO :..... Dt:28/10/2021

Technical Sanction
Accorded For Rs.150.00 Lakhs
Head of A/C 2215
CER NO : 172 Dt: 26/11/2021

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, issue rates and Data Rates.

Assistant Engineer
Yelahanka Project Division
BBMP Bangalore

Asst. Executive Engineer
Yelahanka Project Division
BBMP Bangalore

Executive Engineer
Yelahanka Project Division
BBMP Bangalore

Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

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